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Attorney Docket No.: 21402-168

1642

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Edinger, et al.  
SERIAL NUMBER : 09/981,151 EXAMINER : Not Yet Assigned  
FILING DATE : October 16, 2001 ART UNIT : 1642  
FOR : Proteins and Nucleic Acids Encoding Same

**BOX IDS**

Commissioner for Patents  
Washington, D.C. 20231



**TRANSMITTAL LETTER**

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (2 pages);
2. Modified Form 1449/PTO (7 pages), in duplicate;
3. Copies of Cited References C1-C167; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 21402-168. A duplicate copy of this transmittal letter is enclosed herewith.

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Dated: March 22, 2002

Respectfully submitted,

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Ivor R. Elrifi, Reg. No. 39,529  
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**INFORMATION DISCLOSURE STATEMENT**

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449, as well as copies of the listed documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the above-identified case. Accordingly, no fee or certification is believed required.

A copy of each of the references in the above-identified application is enclosed unless otherwise indicated on the attached modified Form PTO-1449. It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

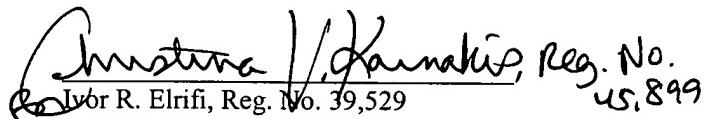
By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANTS: Edinger, et al.  
U.S.S.N.: 09/981,151

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 21402-168.

Respectfully submitted,

  
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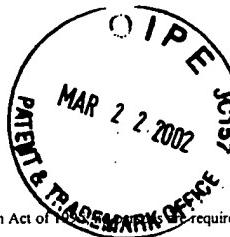
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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number

09/981,151

Filing Date

10/16/2001

First Named Inventor

Edinger

Group Art Unit

1642

Examiner Name

Not Yet Assigned

Attorney Docket Number

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U.S. PATENT DOCUMENTS

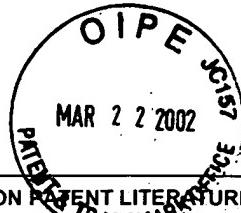
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FOREIGN PATENT DOCUMENTS

Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No

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	C2	Alves, et al. (2000). "Gap junction modulation by extracellular signaling molecules: the thymus model." <i>Braz J Med Biol Res</i> 33(4): 457-65.
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	C6	Blacker, et al. (1998). "Alpha-2 macroglobulin is genetically associated with Alzheimer disease." <i>Nat Genet</i> 19(4): 357-60.
	C7	Coates, et al. (2001). "Mammalian prohibitin proteins respond to mitochondrial stress and decrease during cellular senescence." <i>Exp Cell Res</i> 265(2): 262-73.
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	C9	Dawson and Oelkers (1995). "Bile acid transporters." <i>Curr Opin Lipidol</i> 6(2): 109-14.
	C10	Donahue (2000). "Gap junctions and biophysical regulation of bone cell differentiation." <i>Bone</i> 26(5): 417-22.
	C11	Emi, et al. (1986). "Cloning, characterization and nucleotide sequences of two cDNAs encoding human pancreatic trypsinogens." <i>Gene</i> 41(2-3): 305-10.
	C12	Ferec, et al. (1999). "Mutations in the cationic trypsinogen gene and evidence for genetic heterogeneity in hereditary pancreatitis." <i>J Med Genet</i> 36(3): 228-32.
	C13	Foster, et al. (1988). "Structure and expression of the human metallothionein-IG gene. Differential promoter activity of two linked metallothionein-I genes in response to heavy metals." <i>J Biol Chem</i> 263(23): 11528-35.



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	C56	GenBank Accession Number: NP_058918 (20-OCT-2001).
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	C59	GenBank Accession Number: NP_109634 (08-JAN-2002).
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	C61	GenBank Accession Number: NP_112217 (06-SEP-2001).
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	C87	Georgiadis, et al. (1999). "ADAM-TS8, a novel metalloprotease of the ADAM-TS family located on mouse chromosome 9 and human chromosome 11." <i>Genomics</i> 62(2): 312-5.
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	C89	Hayashi, et al. (2001). "Gene therapy for preventing neuronal death using hepatocyte growth factor: in vivo gene transfer of HGF to subarachnoid space prevents delayed neuronal death in gerbil hippocampal CA1 neurons." <i>Gene Ther</i> 8(15): 1167-73.

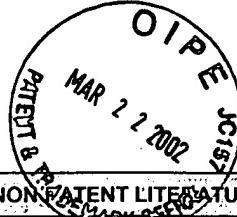
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Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C90	Herz, et al. (1988). "Surface location and high affinity for calcium of a 500-kd liver membrane protein closely related to the LDL-receptor suggest a physiological role as lipoprotein receptor." <i>Embo J</i> 7(13): 4119-27.
	C91	Heubi, et al. (1979). "Refractory infantile diarrhea due to primary bile acid malabsorption." <i>J Pediatr</i> 94(4): 546-51.
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	C93	Honey, et al. (1984). "Chromosomal assignments of genes for trypsin, chymotrypsin B, and elastase in mouse." <i>Somat Cell Mol Genet</i> 10(4): 377-83.
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	C95	Jonas, et al. (1986). "Well-compensated primary bile acid malabsorption presenting as chronic nonspecific diarrhea." <i>J Pediatr Gastroenterol Nutr</i> 5(1): 143-6.
	C96	Jongsma and Wilders (2000). "Gap junctions in cardiovascular disease." <i>Circ Res</i> 86(12): 1193-7.
	C97	Karin and Richards (1982). "Human metallothionein genes--primary structure of the metallothionein-II gene and a related processed gene." <i>Nature</i> 299(5886): 797-802.
	C98	Karin and Richards (1982). "Human metallothionein genes: molecular cloning and sequence analysis of the mRNA." <i>Nucleic Acids Res</i> 10(10): 3165-73.
	C99	Karin et al. (1984). "Human metallothionein genes are clustered on chromosome 16." <i>Proc Natl Acad Sci U S A</i> 81(17): 5494-8.
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	C101	Kern, et al. (2001). "Concentrations of hepatocyte growth factor in cerebrospinal fluid under normal and different pathological conditions." <i>Cytokine</i> 14(3): 170-6.
	C102	Kingma, et al. (1998). "Bovine epidermal fatty acid-binding protein: determination of ligand specificity and cellular localization in retina and testis." <i>Biochemistry</i> 37(10): 3250-7.
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	C104	Lammert, et al. (1998). "Localization of the ileal sodium-bile salt cotransporter gene (Slc10a2) to mouse chromosome 8." <i>Mamm Genome</i> 9(2): 173-4.
	C105	Le Beau, et al. (1985). "Metallothionein gene cluster is split by chromosome 16 rearrangements in myelomonocytic leukaemia." <i>Nature</i> 313(6004): 709-11.
	C106	Lee, et al. (1995). "Two classes of proteins dependent on either the presence or absence of thyroid hormone for interaction with the thyroid hormone receptor." <i>Mol Endocrinol</i> 9(2): 243-54.
	C107	Linder, et al. (2000). "Microtubule-dependent formation of podosomal adhesion structures in primary human macrophages." <i>J Cell Sci</i> 113 (Pt 23): 4165-76.
	C108	Linseman, et al. (2001). "An essential role for Rac/Cdc42 GTPases in cerebellar granule neuron survival." <i>J Biol Chem</i> 276(42): 39123-31.
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	C110	MacDonald, et al. (1982). "Two similar but nonallelic rat pancreatic trypsinogens. Nucleotide sequences of the cloned cDNAs." <i>J Biol Chem</i> 257(16): 9724-32.
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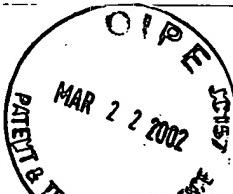
Page 5 of 7

OTHER PRIOR ART			TECH CENTER 1600/2900
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.	
	C113	Masters, et al. (1994). "Targeted disruption of metallothionein I and II genes increases sensitivity to cadmium." <i>Proc Natl Acad Sci U S A</i> <u>91</u> (2): 584-8.	
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	C133	Sato, et al. (1992). "The human prohibitin gene located on chromosome 17q21 is mutated in sporadic breast cancer." <i>Cancer Res</i> <u>52</u> (6): 1643-6.	
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	C135	Schmidt, et al. (1985). "Structure and expression of two human metallothionein-I isoform genes and a related pseudogene." <i>J Biol Chem</i> <u>260</u> (12): 7731-7.	
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	C137	Shimamoto, et al. (1993). "Hepatocyte growth factor-like protein is identical to macrophage stimulating protein." <i>FEBS Lett</i> <u>333</u> (1-2): 61-6.	
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APR 01 2002 Page 6 of 7

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	C143	SWALL (SPTR) Accession Number: Q14870 (1-AUG-1992).
	C144	SWALL (SPTR) Accession Number: Q9H3S3 (16-OCT-2001).
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Page 7 of 7



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